

Title XXXI - DEPARTMENT OF ENERGY NATIONAL SECURITY PROGRAMS

(Dollars in Thousands)

	FY 2008 Authorization Request	Committee Change	Committee Increase	Committee Decrease	FY 2008 Committee Authorization
National Nuclear Security Administration:					
Weapons Activities					
Directed stockpile work (DSW)					
Life extension programs					
B61 life extension program.....	63,115	(4,200)		(4,200)	58,915
W76 life extension program.....	175,571				175,571
W80 life extension program.....					
Subtotal, Life extension programs.....	238,686	(4,200)		(4,200)	234,486
Stockpile systems.....					
B61 stockpile systems.....	75,091				75,091
W62 stockpile systems.....	2,153				2,153
W76 stockpile systems.....	69,238				69,238
W78 stockpile systems.....	38,991				38,991
W80 stockpile systems.....	32,372				32,372
B83 stockpile systems.....	25,012				25,012
W84 stockpile systems.....					
W87 stockpile systems.....	57,147				57,147
W88 stockpile systems.....	46,713				46,713
Subtotal, Stockpile systems.....	346,717				346,717
Reliable replacement warhead program.....	88,769	(20,000)		(20,000)	68,769
Weapons Dismantlement and Disposition.....	52,250				52,250
Stockpile services.....					
Production support.....	284,979				284,979
Research & development support.....	33,329				33,329
Research & development certification and safety.....	181,984				181,984

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Management, technology and production.....	205,576				205,576
Responsive Infrastructure.....	14,946				14,946
Subtotal, Stockpile services.....	720,814				720,814
Program increase (QMU study).....					
Total, Directed stockpile work.....	1,447,236	(24,200)		(24,200)	1,423,036
Science campaign					
Primary assesment technologies.....	63,527				63,527
Test readiness.....					
Dynamic materials properties.....	98,014				98,014
Advanced radiography.....	30,995				30,995
Secondary assessment technologies.....	80,539				80,539
Total, Science campaigns.....	273,075				273,075
Engineering campaign					
Enhanced surety.....	24,803				24,803
Weapons systems engineering assessment technology.....	19,691				19,691
Nuclear survivability and effects.....	8,813				8,813
Enhanced surveillance.....	80,614	4,014	4,014		84,628
Microsystems and engineering sciences (MESA) and OPC.....	7,630				7,630
MESA application construction (01-D-108).....	11,198				11,198
Total, Engineering campaign.....	152,749	4,014	4,014		156,763
Inertial confinement fusion ignition and high yield campaign					
Ignition.....	97,537				97,537
Support of other stockpile programs.....					

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NIF diagnostics, cryogenics and experimental support.....	67,935				67,935
Pulsed power inertial confinement fusion.....	10,440				10,440
Univeristy grants/other IFC support.....					
Joint Program in High Energy Density Laboratory Plasmas.....	3,213				3,213
Facility operations and target production.....	86,083				86,083
Inertial fusion technology.....					
NIF Assembly and Installation Program.....	136,912				136,912
High-energy petawatt laser development.....					
96-D-111, National Ignition Facility.....	10,139				10,139
Program increase (NIF target production).....		15,100	15,100		15,100
Total, Inertial confinement fusion ignition and high yield campaign	412,259	15,100	15,100		427,359
Advanced simulation and computing campaign					
Integrated codes	156,299				156,299
Physics and engineering models	67,182				67,182
Verification and validation.....	50,198				50,198
Computational systems and software environment	201,006	5,000	5,000		206,006
Facility operation and user support	111,053				111,053
Subtotal, Advanced simulation and computing.....	585,738	5,000	5,000		590,738
Reduction for cost growth.....					
Total, Advanced simulation and computing campaign.....	585,738	5,000	5,000		590,738
Pit manufacturing and certification campaign.....					
Pit manufacturing.....	155,838				155,838
Pit certification.....	45,999				45,999
Pit manufacturing capability.....	54,479				54,479

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Modern pit facility.....					
Pit campaign support activities at NTS.....					
Consolidated Plutonium Center, OPC's.....	24,914	(24,914)		(24,914)	
Total, Pit manufacturing and certification campaign.....	281,230	(24,914)		(24,914)	256,316
Readiness Campaign					
Stockpile readiness.....	18,924				18,924
High explosives and weapon operations.....	9,835				9,835
Non-nuclear readiness.....	25,592				25,592
Tritium readiness.....	73,231				73,231
Advanced design & production technologies.....	33,587				33,587
Tritium Extraction Facility (98-D-125).....					
Total, Readiness campaign.....	161,169				161,169
Total, Campaigns.....	1,866,220	(800)	24,114	(24,914)	1,865,420
Readiness in technical base and facilities (RTBF)					
Operations of facilities					
Kansas City Plant.....	96,353				96,353
LLNL.....	81,044				81,044
LANL.....	270,582				270,582
Nevada Test Site.....	66,127				66,127
Pantex Plant.....	95,012	15,000	15,000		110,012
Sandia National Laboratories.....	156,872				156,872
Savannah River Site.....	97,410				97,410
Y-12 National Security Complex.....	188,561	10,000	10,000		198,561
Institutional site support.....	107,344				107,344

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	FY 2008 Authorization Request	Committee Change	Committee Increase	Committee Decrease	FY 2008 Committee Authorization
Program Increase.....					
Program readiness.....	71,466				71,466
Special projects.....					
Material recycle and recovery.....	69,962				69,962
Y-12					
Containers.....	19,184				19,184
Storage.....	35,133				35,133
Repair and replacement-Pantex.....					
Repair and replacement-Y-12.....					
Subtotal, operations & maintenance.....	1,355,050	25,000	25,000		1,380,050
Construction					
08-d-801, High Pressure Fire Loop; PX	7,000				7,000
08-D-802, High Explosive Pressing Facility; PX	25,300				25,300
08-D-804, TA-55 Reinvestment Project, Phase I, LANL	6,000				6,000
07-D-140 PED, VL	2,500				2,500
07-D-220 RLW treatment facility, LANL	26,672				26,672
06-D-140 Project engineering design, VL.....	23,862				23,862
06-D-402, NTS Replace fire stations #1 and #2, NSO.....	6,719				6,719
06-D-403, Tritium facility modernization, LLNL.....					
05-D-140, Project engineering and design, VL.....	7,000				7,000
05-D-402 Beryllium capability project, Y-12.....					
04-D-125 CMRR replacement, LANL.....	95,586				95,586
04-D-128 Criticality Experiments Facility, LANL/NTS.....	29,455				29,455
03-D-103 Project engineering and design, VL.....					
01-D-103 Project engineering and design, VL.....					
01-D-124 HEU materials facility, Y-12.....	77,000				77,000

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Subtotal, Construction.....	307,094				307,094
Total, Readiness in technical base and facilities.....	1,662,144	25,000	25,000		1,687,144
Secure transportation asset					
Operations and equipment.....	130,845				130,845
Program Direction.....	84,801				84,801
Subtotal, Secure transportation asset	215,646				215,646
Use of prior year balances					
Total, Secure transportation asset	215,646				215,646
Nuclear weapons incident response					
Emergency response.....	145,984				145,984
Emergency management.....	6,860				6,860
Operations support.....	8,904				8,904
Total, nuclear weapons incident response	161,748				161,748
Facilities and infrastructure recapitalization program					
Operations and maintenance.....					
Recapitalization.....	179,458				179,458
Facility disposition.....	25,000				25,000
Infrastructure planning.....	26,565				26,565
Program increase.....					
Program decrease.....					
Subtotal, operations & maintenance.....	231,023				231,023
Construction:					
08-D-602, Potable Water System Upgrades, Y-12	22,500				22,500

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08-D-601, Relpace Mercury Highway, NTS	7,800				7,800
07-D-253 TA-1 Heating System	13,000				13,000
06-D-603, Steam plant life extension, Y-12	15,020				15,020
06-D-602, Gas main and distribution system upgrade, PX	1,900				1,900
06-D-601, Electrical distribution system upgrade, PX	2,500				2,500
06-D-160, FIRP PED, VL					
05-D-160 FIRP PED, VL.....					
05-D-601Compressed air upgrades project, Y-12.....					
Subtotal, Construction.....	62,720				62,720
Total, Facilities and infrastructure recapitalization program.....	293,743				293,743
Environmental projects and operations					
Long term response actions	17,518				17,518
Total, Environmental projects and operations	17,518				17,518
Safeguards and security (Defense nuclear security)					
Operations and maintenance	721,318				721,318
Pantex unfunded safeguards and security					
Y-12 unfunded safeguards and security					
Program increase					
Subtotal, operations and maintenance.....	721,318				721,318
Construction	57,496				57,496
Subtotal, Construction.....	57,496				57,496
Cyber security (Homeland security).....	102,243				102,243
Subtotal, Safeguards and security.....	881,057				881,057
Offset for S&S Work for Others.....	(34,000)				(34,000)

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Material security and consolidation project, INL.....					
Total, Safeguards and security.....	847,057				847,057
Subtotal, Weapons Activities.....	6,511,312		49,114	(49,114)	6,511,312
Adjustments					
Use of prior year balances.....					
Less security charge for reimbursable work.....					
Total, Adjustments.....					
Total, Weapons Activities.....	6,511,312		49,114	(49,114)	6,511,312
Defense Nuclear Nonproliferation					
Nonproliferation and verification research and development (R&D)					
Operations and maintenance.....					
Proliferation detection.....	147,107	13,000	13,000		160,107
Nuclear explosion monitoring.....	112,650	2,000	2,000		114,650
Supporting activities.....	5,495				5,495
Subtotal, Operations and maintenance.....	265,252	15,000	15,000		280,252
Construction.....					
06-D-180 Physical sciences facility, PNNL					
07-SC-05 Physical sciences facility, PNNL					
Subtotal, Construction					
Total, Nonproliferation and verification R&D	265,252	15,000	15,000		280,252
Nonproliferation and international security (NIS).....					

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Dismantlement and transparency.....	38,053	5,000	5,000		43,053
Global security engagement and cooperation.....	41,256	15,000	15,000		56,256
International regimes and agreements.....	36,288	3,000	3,000		39,288
Treaties and agreements.....	4,224				4,224
International emergency management and cooperation.....	5,049				5,049
Total, Nonproliferation and international security.....	124,870	23,000	23,000		147,870
International nuclear materials protection and cooperation (MPC&A)					
Navy complex.....	13,390				13,390
Strategic rocket forces.....	91,449				91,449
Rosatom weapons complex.....	60,114				60,114
Civilian nuclear sites.....	22,188				22,188
Material consolidation and conversion.....	19,667	3,000	3,000		22,667
National programs and sustainability.....	45,632	7,000	7,000		52,632
Second line of defense.....					
Core.....	72,534				72,534
Megports.....	46,797	20,000	20,000		66,797
Total, International nuclear materials protection and cooperation....	371,771	30,000	30,000		401,771
Elimination of weapons-grade plutonium production (EWGPP).....					
Seversk Pu production elimination.....	19,400				19,400
Zheleznogorsk Pu production elimination.....	160,793				160,793
Crosscutting and technical support activities.....	1,400				1,400
Total, EWGPP.....	181,593				181,593

Fissile materials disposition (FMD)

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	FY 2008 Authorization Request	Committee Change	Committee Increase	Committee Decrease	FY 2008 Committee Authorization
US surplus materials disposition.....					
Operations and maintenance.....					
US plutonium disposition.....	128,600				128,600
US uranium disposition.....	66,843				66,843
Supporting activities.....	20,242				20,242
Subtotal, Operations and maintenance.....	195,443				
Construction.....					
99-D-141 Pit disassembly and conversion facility, Savannah River	60,000				60,000
99-D-143 Mixed oxide (MOX) fuel fabrication facility, Savannah Riv	333,849				333,849
Subtotal, Construction.....	393,849				
Subtotal, US surplus materials disposition.....	609,534				609,534
Russian surplus materials disposition.....					
Subtotal, Fissile materials disposition.....	609,534				609,534
Plutonium immobilization, Savannah River Site					
Total, Fissile materials disposition.....	609,534				609,534
 Global threat reduction initiative (GTRI).....					
Reduced enrichment for research and test reactors.....	31,190	5,000	5,000		36,190
Russian research reactor fuel return.....	31,046				31,046
Foreign research reactor SNF acceptance.....	4,211				4,211
Emerging threats and gap materials.....	1,721	30,000	30,000		31,721
US radiological threat reduction.....	13,228	2,000	2,000		15,228
Kazakhstan spent fuel.....	31,722				31,722
Global research reactor study.....	500				500
International radiological threat reduction.....	6,008	40,000	40,000		46,008
Total, Global threat reduction initiative.....	113,618	77,000	77,000		150,618

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Subtotal, Defense Nuclear Nonproliferation.....	1,672,646	145,000	145,000		1,817,646
Total, Defense Nuclear Nonproliferation.....	1,672,646	145,000	145,000		1,817,646
Naval Reactors					
Naval reactors development					
Operation and maintenance.....	765,519				765,519
Construction					
07-D-190 PED materials research technology complex.....	450				450
08-D-901 Shipping and Receiving and Warehouse Complex	9,000				9,000
08-D-190 Project Engineering and Design	550				550
Subtotal, Construction.....	10,000				9,450
Program direction.....	32,700				32,700
Total, Naval reactors development.....	808,219				808,219
Total, Naval Reactors	808,219				808,219
Office Of The Administrator					
Office of the Administrator.....	394,656	5,000	5,000		399,656
Total, Office of the Administrator.....	394,656	5,000	5,000		399,656
Total, National Nuclear Security Administration.....	9,386,833	150,000	199,114	(49,114)	9,536,833

II Environmental & Other Defense Activities:

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Defense Environmental Cleanup					
Closure Sites					
Ashtabula	295				295
Administration	11,834				11,834
Columbus					
Fernald					
Miamisburg	30,308				30,308
Rocky Flats					
Total, Closure sites	42,437				42,437
Hanford Site					
2012 Completion projects.....	413,038				413,038
2035 Completion projects.....	464,042				464,042
Total, Hanford site.....	877,080				877,080
Idaho National Laboratory.....					
Operating.....	391,226				391,226
Construction.....					
06-D-401 Sodium bearing waste treatment project, INL.....	112,800				112,800
Total, Idaho National Lab.....	504,026				504,026
NNSA Sites.....					
California Site Support.....	370				370
Kansas City Plant.....					
Lawrence Livermore NL.....	8,680				8,680
Los Alamos NL.....	139,467				139,467

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Nevada Off-Sites.....					
Nevada.....	81,106				81,106
NNSA Service Center.....	29,096				29,096
Pantex.....	12,411				12,411
Sandia NL.....					
Total, NNSA Sites.....	271,130				271,130
Oak Ridge.....	179,284				179,284
Office of River Protection.....					
Tank farm activities.....	273,443				273,443
Rad liquid tank waste stabilization and disposition.....					
Waste treatment and immobilization plant construction 01-D-16.....	690,000				690,000
Low activity waste facility.....					
Analytical lab.....					
Balance of facilities.....					
High level waste facility.....					
PrEFreatment facility.....					
Program Decrease.....					
Subtotal, Construction.....					
Total, Office of River Protection.....	963,443				963,443
Savannah River Site.....					
2012 Completion projects.....					
Operating.....					
Nuclear material stabilization and disposition.....					

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Construction.....					
04-D-414 PED: 3013 container surveillance in 235-F.....					
04-D-423 3013 container surveillance in 235F.....	31,000				31,000
Subtotal, 2012 Completion projects.....	31,000				31,000
2035 Completion projects.....					
Operating.....	495,071				495,071
08-D-414/PED: 08-01 Plutonium Vitrification Facility.....	15,000				15,000
Nuclear facility D&D.....					
Tank farm activities.....					
Operating.....	524,018				524,018
Construction.....					
03-D-414 PED Salt waste processing facility alternative.....	10,001				10,001
05-D-405 Salt waste processing facility.....	131,000				131,000
Subtotal, Tank farm activities.....	665,019				665,019
Site increase for cleanup activities.....					
Total, Savannah River Site.....	1,206,090				1,206,090
 Waste Isolation Pilot Plant.....	 219,739				 219,739
Operating.....					
Central characterization project.....					
Transportation.....					
Community and regulatory support.....					
Total, WIPP.....	219,739				219,739
 Program Support.....					
Headquarters.....	33,146				33,146

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Rocky Flats.....					
Total, Program Support.....	33,146				33,146
 Program Direction.....	 309,760				 309,760
 Safeguards and Security.....	 273,381				 273,381
 Technology Development and Deployment.....	 21,389				 21,389
 Federal Contribution to the Uranium D&D Fund.....	 463,000				 463,000
 EM increase (tank waste cleanup R&D).....					
 Total, Defense Environmental Cleanup.....	 5,363,905				 5,363,905
 Other Defense Activities					
Health, Safety, and Security					
Health, Safety, and Security	329,305				329,305
Program Direction	100,043				100,043
Use of prior year balances.....	(990)				(990)
Total, Health, Safety, and Security.....	428,358				428,358
 Environment, safety & health					
Environment, safety and health (defense).....					
Program direction.....					
Total, Environment, safety and health.....					

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Legacy Management					
Legacy management.....	148,063				148,063
Program direction.....	11,000				11,000
Total, Office of Legacy Management.....	159,063				159,063
Nuclear energy					
Infrastructure					
Idaho sitewide safeguards and security.....	75,949				75,949
Subtotal, Nuclear energy.....	75,949				75,949
Less security charge for reimbursable work.....	(3,003)				(3,003)
Total, Nuclear energy.....	72,946				72,946
Defense related administrative support.....	99,000				99,000
Office of Hearings and Appeals.....	4,607				4,607
Total, Other Defense Activities.....	763,974				763,974
Defense Nuclear Waste Disposal					
Yucca Mountain project.....	292,046				292,046
Transportation.....					
Total, Defense nuclear waste disposal.....	292,046				292,046
Total, Environmental and ODA.....	6,419,925				6,419,925

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Atomic Energy Defense Activities Summary					
National Nuclear Security Administration:					
Weapons activities.....	6,511,312		49,114	(49,114)	6,511,312
Defense nuclear nonproliferation.....	1,672,646	145,000	145,000		1,817,646
Naval reactors.....	808,219				808,219
Office of the administrator.....	394,656	5,000	5,000		399,656
Total, National Nuclear Security Administration.....	9,386,833	150,000	199,114	(49,114)	9,536,833
Environmental and other defense activities:					
Defense environmental cleanup.....	5,363,905				5,363,905
Other defense activities.....	763,974				763,974
Defense nuclear waste disposal.....	292,046				292,046
Total, Environmental & ODA.....	6,419,925				6,419,925
Total, Atomic Energy Defense Activities.....	15,806,758	150,000	199,114	(49,114)	15,956,758
Other Activities.....					
Energy Supply.....	6,000				6,000
Defense Nuclear Facilities Safety Board.....	22,499				22,499
Formerly Utilized Sites Remedial Action Program - COE.....	130,000				130,000
Total, Other Activities.....	158,499				158,499
Total, Department of Energy (053).....	15,965,257	150,000	199,114	(49,114)	16,115,257